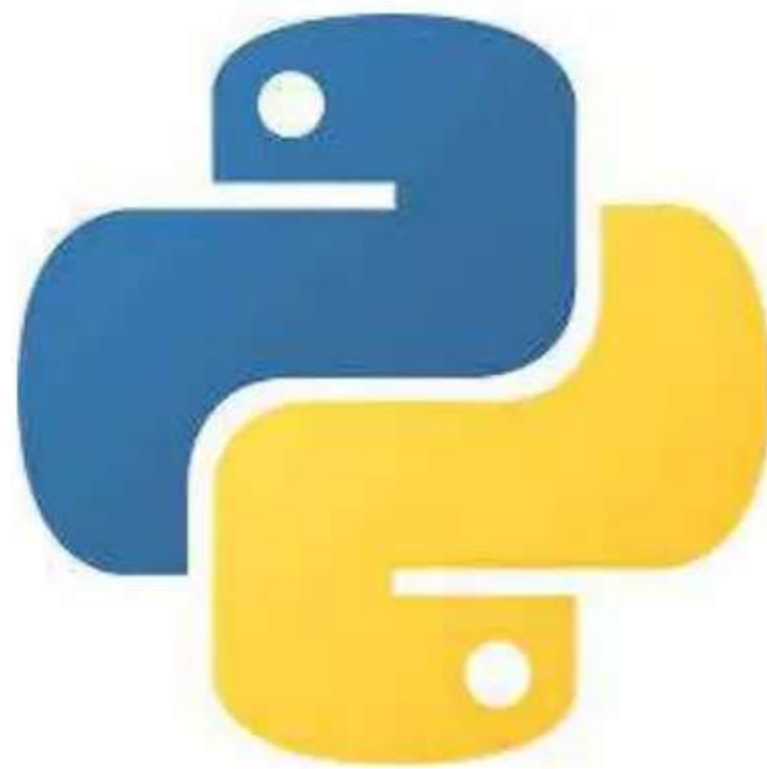


CONDITIONAL STATEMENT



Conditional Statement

In programming and scripting languages, conditional statements or conditional constructs are used to perform different computations or actions depending on whether a condition evaluates to true or false.

Types of Conditional Statement



**if
Statement**

The diagram features a large red oval with a blue border, centered within a larger orange oval with a blue border. Above the orange oval is a small black circle with a red border. The entire graphic is set against a light yellow background with a subtle gradient and a soft shadow.



**elif
Statement**

The diagram features a large black oval with a blue border, centered within a larger red oval with a blue border. Above the red oval is a small red circle with a black border. The entire graphic is set against a light yellow background with a subtle gradient and a soft shadow.



**Nested
If else
Statement**


The diagram features a large red oval with a blue border, centered within a larger teal oval with a blue border. Above the teal oval is a small black circle with a red border. The entire graphic is set against a light yellow background with a subtle gradient and a soft shadow.

if Statement

Python if statement is one of the most commonly used conditional statements in programming languages. It decides whether certain statements need to be executed or not. It checks for a given condition, if the condition is true, then the set of code present inside the " if " block will be executed otherwise not.

The if condition evaluates a Boolean expression and executes the block of code only when the Boolean expression becomes TRUE.


```
If ( EXPRESSION == TRUE ):
    Block of code
else:
    Block of code
```

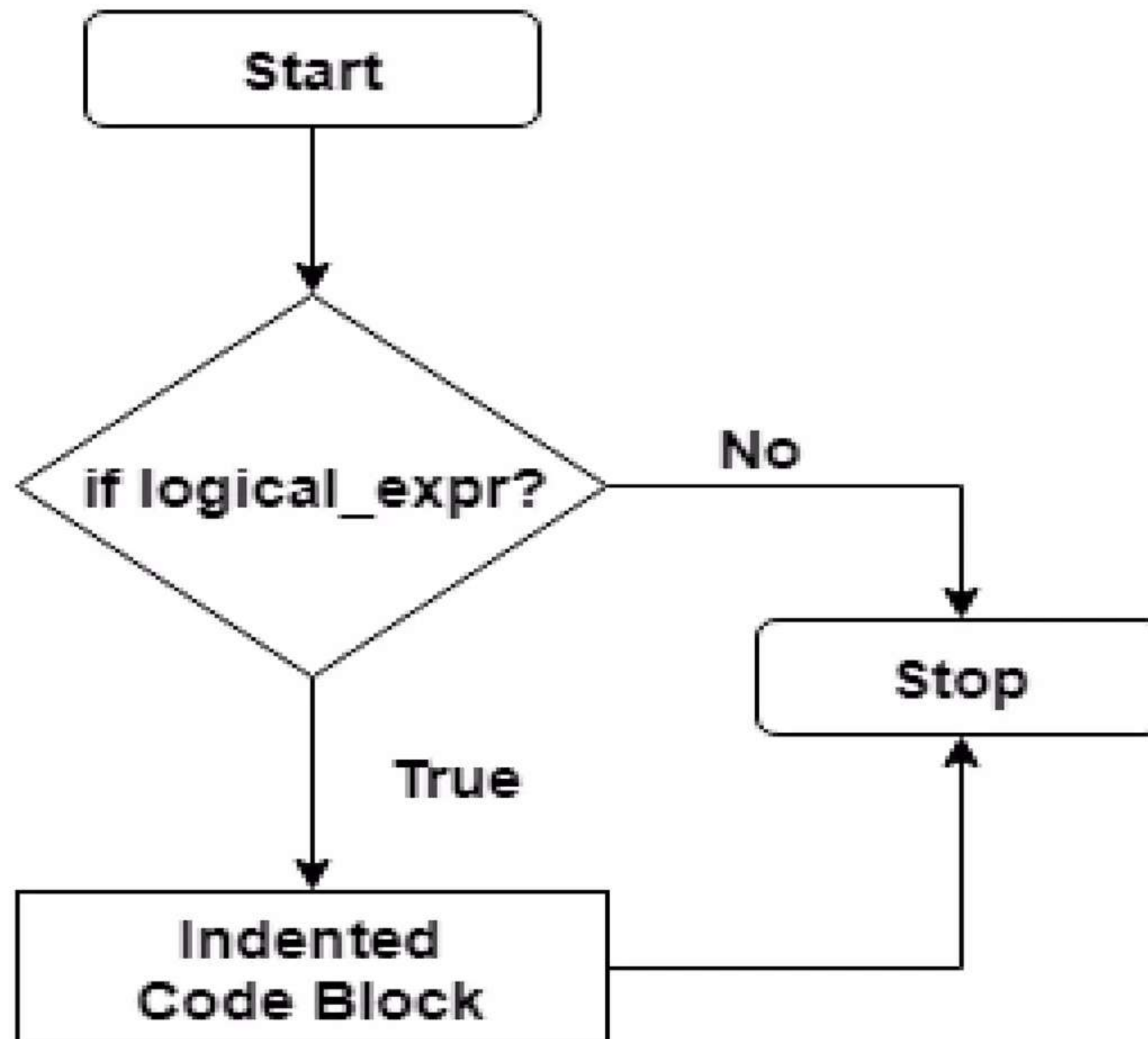
 **Syntax**

Example 

```
num = 2
if (num < 10):
    print("Num is smaller than 10")

print("Yes, this condition is true ")
```

FLOW CHART FOR IF STATEMENT



elif statement

“elif” statement is used to check multiple conditions only if the given condition is false. It's similar to an “if-else” statement and the only difference is that in “else” we will not check the condition but in “elif” we will check the condition.

“elif” statements are similar to “if-else” statements but “elif” statements evaluate multiple conditions.

Syntax:

if (condition):

#Set of statement to execute if condition is true

elif (condition):

#Set of statements to be executed when if condition is false and elif condition is true

else:

#Set of statement to be executed when both if and elif conditions are false

Example

```
num = 10
if (num == 0):
    print("Number is Zero")

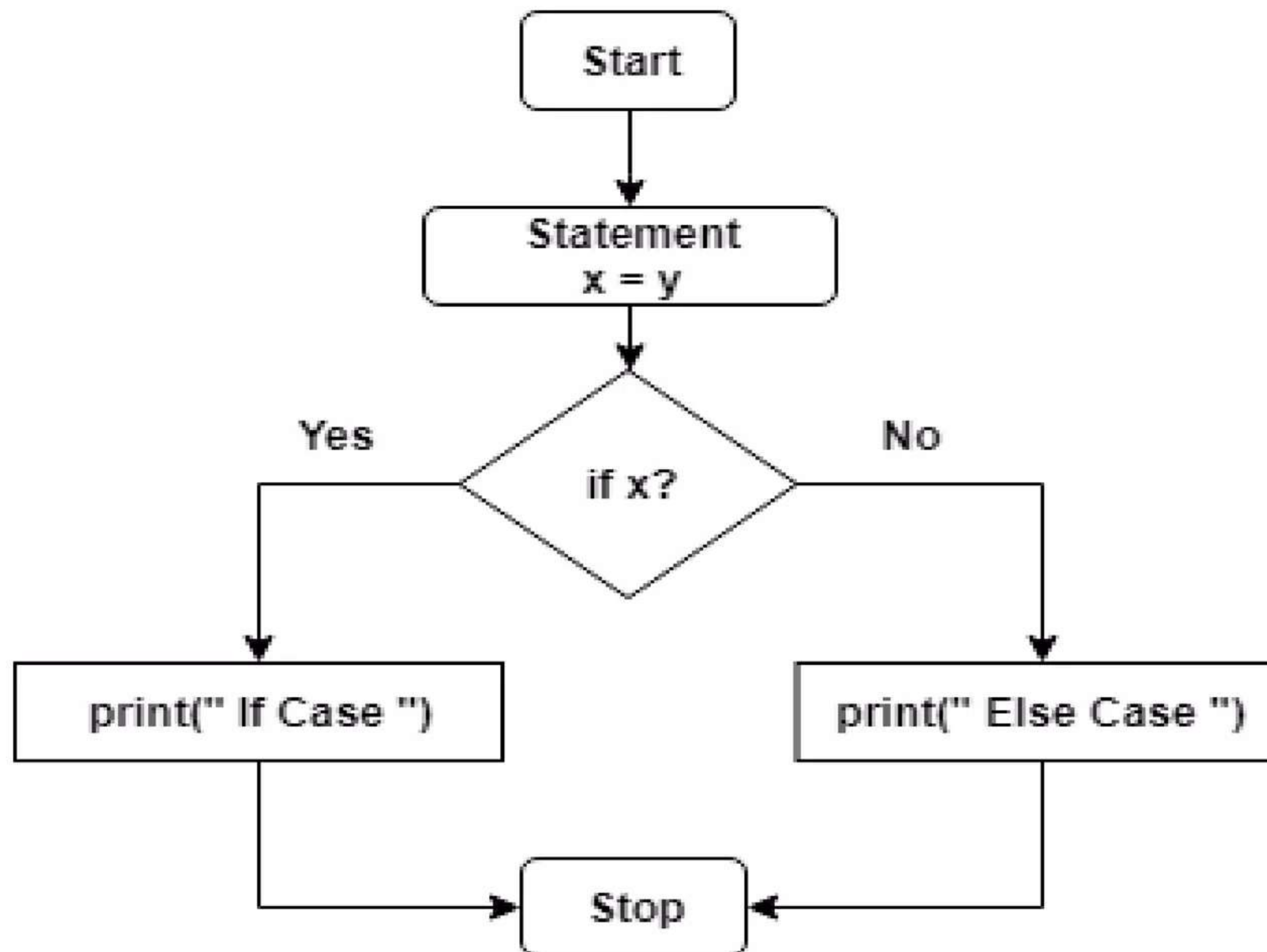
elif (num > 5):
    print("Number is greater than 5")

else:
    print("Number is smaller than 5")
```

Output

Number is
greater than 5

FLOW CHART FOR ELIF STATEMENT



Syntax:

Nested if-else statement

Nested “if-else” statements mean that an “if” statement or “if-else” statement is present inside another if or if-else block. Python provides this feature as well, this in turn will help us to check multiple conditions in a given program.

if (condition):

#Set of statement to execute if condition is true

elif (condition):

#Set of statements to be executed when if condition is false and elif condition is true
else:

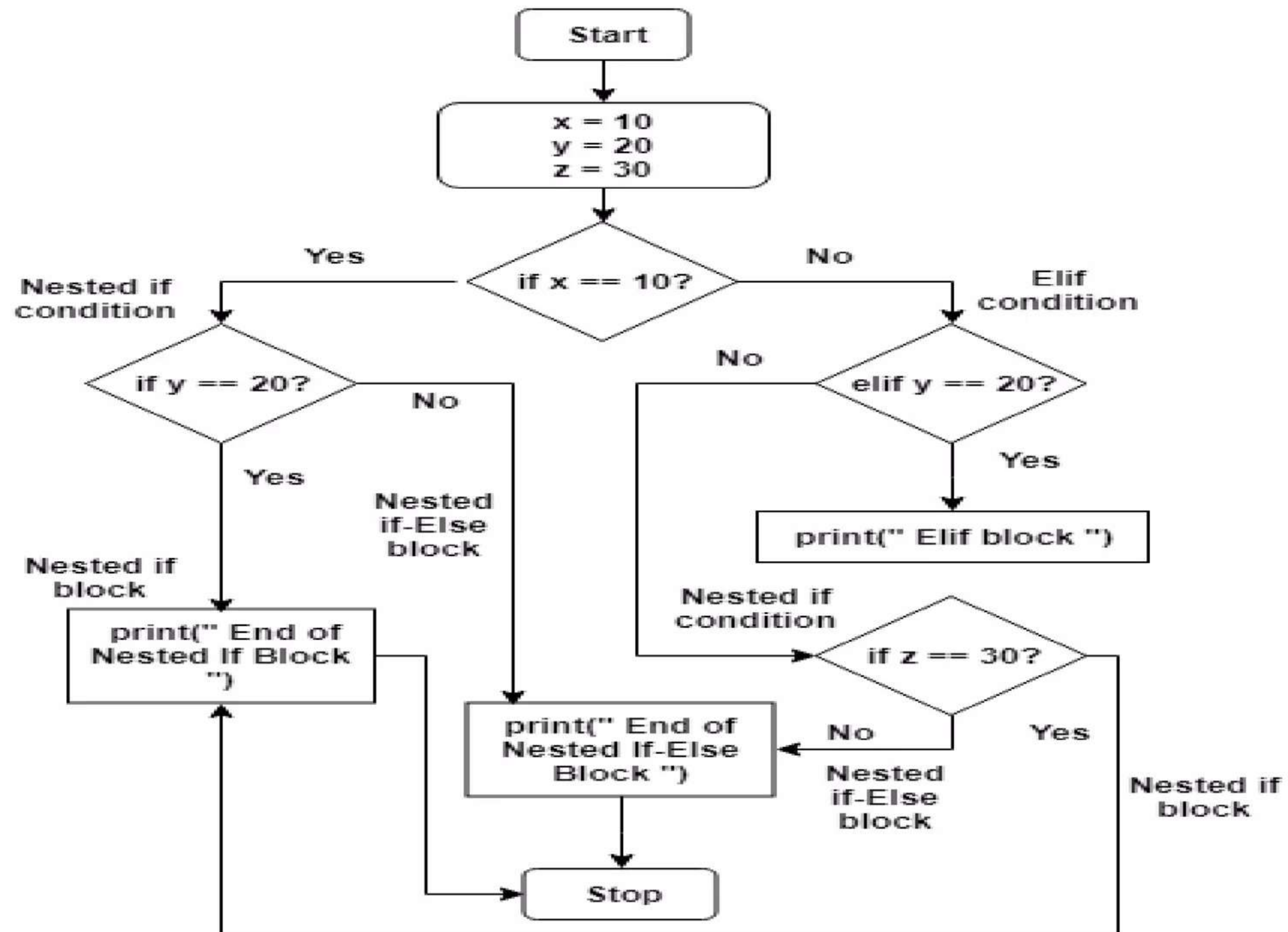
#Set of statement to be executed when both if and elif conditions are false

Example



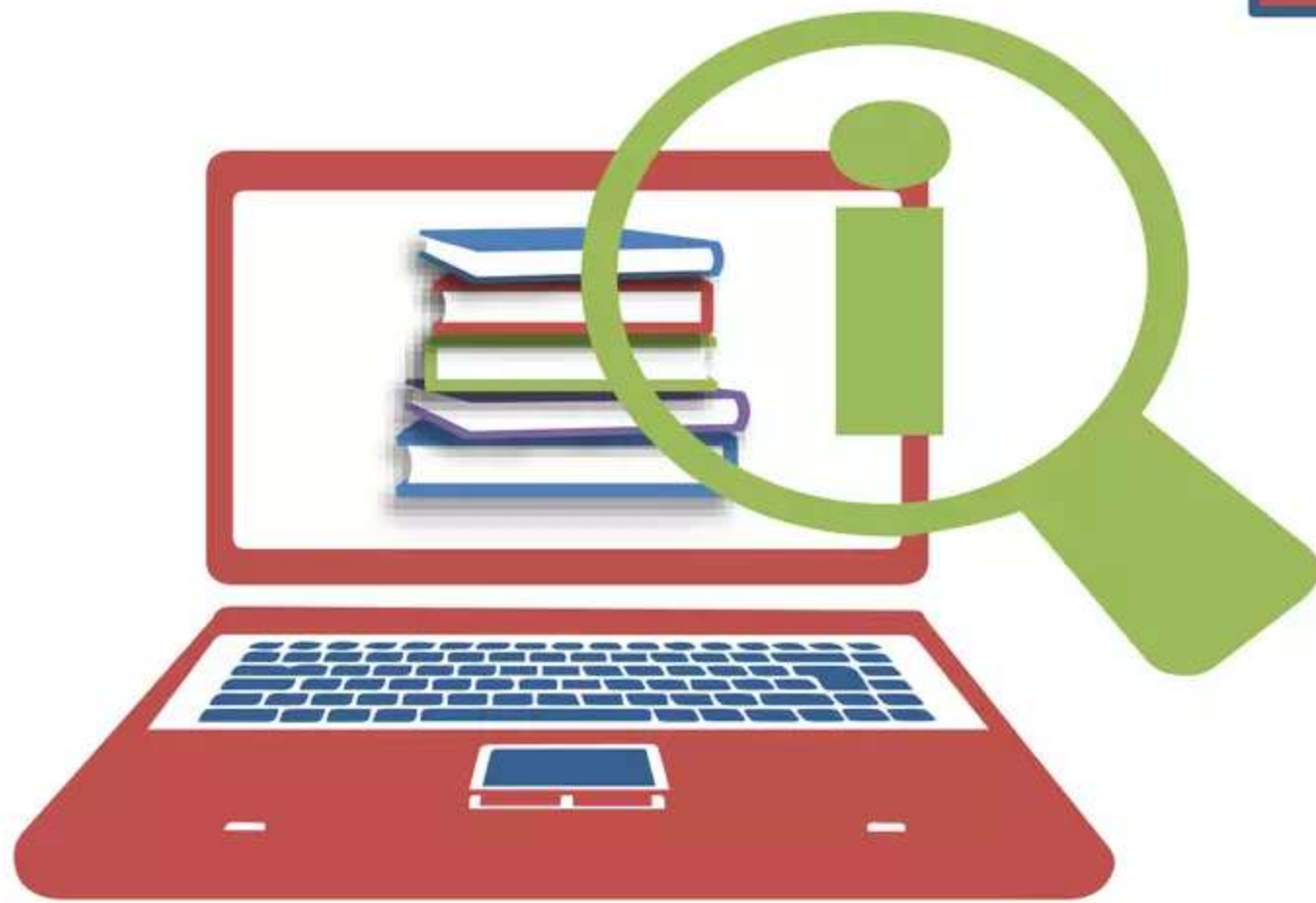
```
num = -7  
if (num != 0):  
    if (num > 0):  
        print("Number  
is positive")  
    else:  
        print("Number  
is negative")  
else:  
    print("Number is  
Zero")
```


FLOW CHART FOR NESTED IF-ELSE STATEMENT



**For more presentation
contact us on**

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Thank
you